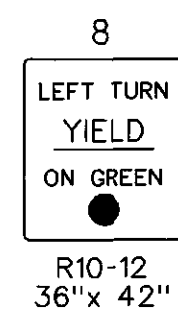
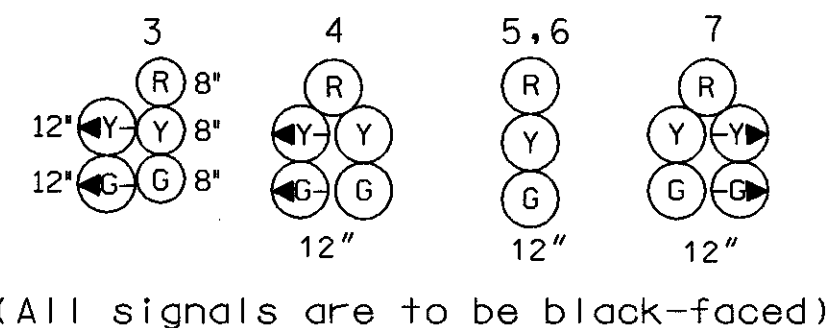


NOTE: MD 170 IS ASSUMED
TO RUN IN A NORTH-SOUTH.

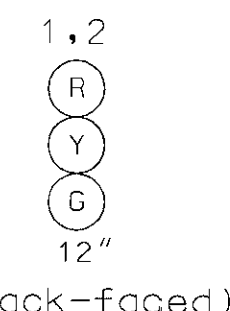
PROPOSED SIGN



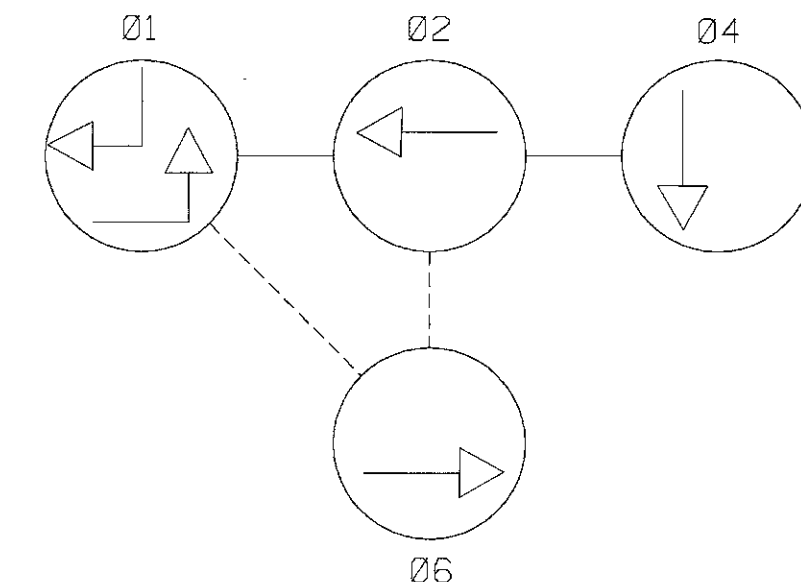
PROPOSED SIGNALS



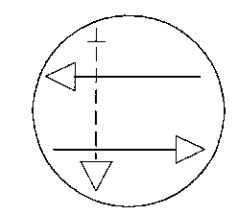
EXISTING SIGNALS



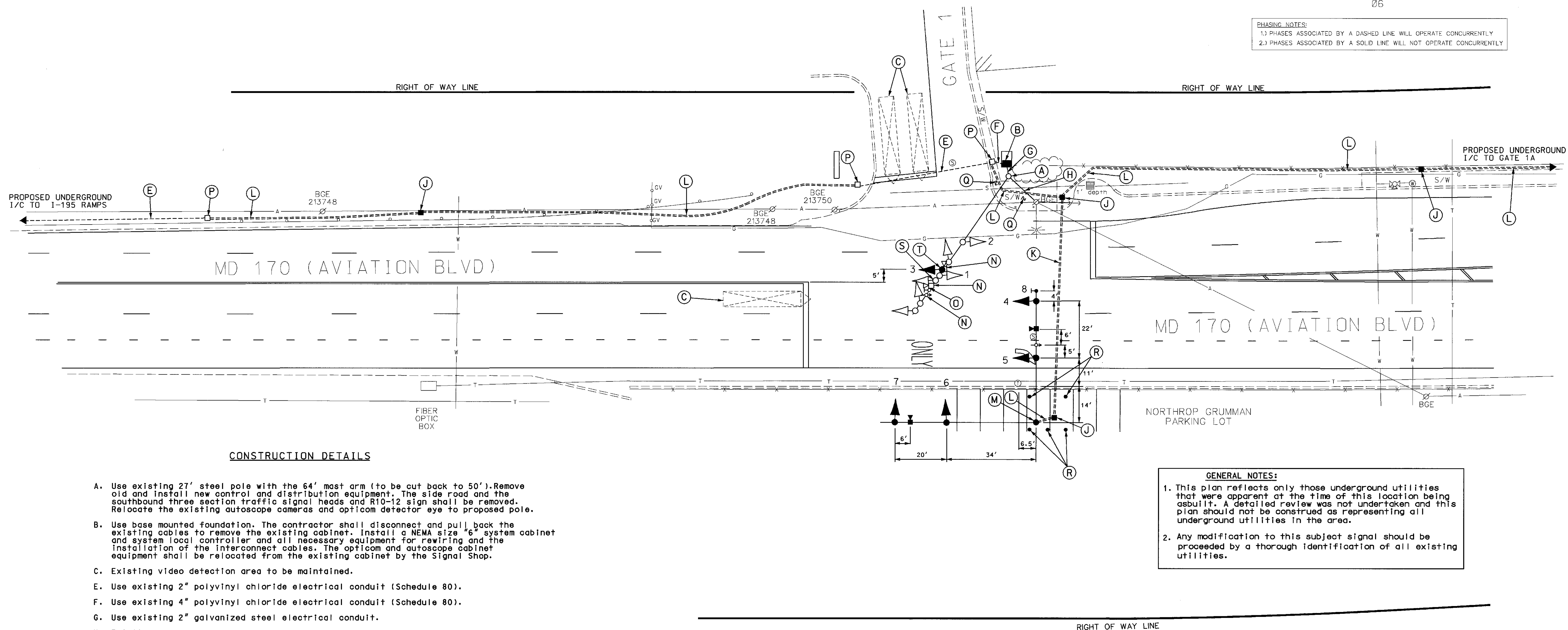
NEMA PHASING



FLASHING OPERATION



PHASING NOTES:
1.) PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY
2.) PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY



CONSTRUCTION DETAILS

- Use existing 27' steel pole with the 64' mast arm (to be cut back to 50'). Remove old and install new control and distribution equipment. The side road and the southbound three section traffic signal heads and R10-12 sign shall be removed. Relocate the existing autoscope cameras and opticom detector eye to proposed pole.
- Use base mounted foundation. The contractor shall disconnect and pull back the existing cables to remove the existing cabinet. Install a NEMA size "6" system cabinet and system local controller and all necessary equipment for rewiring and the installation of the interconnect cables. The opticom and autoscope cabinet equipment shall be relocated from the existing cabinet by the Signal Shop.
- Existing video detection area to be maintained.
- Use existing 2" polyvinyl chloride electrical conduit (Schedule 80).
- Use existing 4" polyvinyl chloride electrical conduit (Schedule 80).
- Use existing 2" galvanized steel electrical conduit.
- Existing overhead electrical service by BGE to be maintained.
- Install handhole.
- Install 4" polyvinyl chloride (Schedule 80) electrical conduit (bored).
- Install 3" polyvinyl chloride (Schedule 80) electrical conduit (trenched).
- Install 27' steel pole with a twin (50' / 60') mast arms, traffic signal heads, signs, and the relocated opticom detector eye and autoscope cameras. (Note: 1-3" PVC 90° Schedule 80 bend).
- Disconnect the existing cables for the opticom detector eye and autoscope cameras from the controller. Remove and relocate to the proposed mast arm as shown.
- Cut, clean, galvanize and cap the existing mast arm as detailed.
- Use existing handhole.
- Remove existing sidewalk and replace after the installation of the proposed signal equipment.
- Install 8' length of 4" galvanized conduit filled with concrete. (4' under & 4' above ground).
- Remove the existing 12" five-section signal head.
- Install 8"/12" combination five-section signal head in location as shown.


GENERAL NOTES:

- This plan reflects only those underground utilities that were apparent at the time of this location being asbuilt. A detailed review was not undertaken and this plan should not be construed as representing all underground utilities in the area.
- Any modification to this subject signal should be preceded by a thorough identification of all existing utilities.

GEOMETRIC LEGEND	
PROPOSED	---
EXISTING	---
LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES	
AERIAL CABLE	---
ELECTRIC	---
TELEPHONE	---
GAS	---
SEWER	---
WATER	---
CABLE TV	---



REVISIONS		APPROVALS	
①	5-10-02 MODIF. SIGNAL, REPLACE CABINET, ADD I/C AND SAMPLING SHA NO. XX1085185	TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION	
EMM	12/84	ASST. CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION	
B	SIGNAL MODIFICATION DUE TO GEOMETRIC	CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION	
A	ASBUILT SHA NO BW-641-801-521	DIRECTOR, TRAFFIC & SAFETY	
EMM			

 MARYLAND DOT - STATE HIGHWAY ADMINISTRATION Office of Traffic & Safety TRAFFIC ENGINEERING DESIGN DIVISION MD 170 & GATE 1 OF NORTHROP GRUMMAN			
DRAWN BY: EMM, SR	F.A.P. NO. 712931527352	TS NO. 1025-C	SHEET NO. 7 OF 23
CHECKED BY: EMM, SR	COUNTY: ANNE ARUNDEL	T.I.M.S. NO. E 541	
DATE: 12-3-82	LOG MILE: 02017007.51		